AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A method for assigning an identifier to a device				
within a distributed computing system, wherein the identifier is unique across the				
distributed computing system, comprising:				
detecting the presence of the device within a local computer system that is				
part of the distributed computing system; and				
if an identifier has not been assigned to the device, assigning an identifier				
to the device by,				
attempting to retrieve the identifier from a local pool of				
device identifiers within the local computer system,				
if the local pool is empty, retrieving at least one additional				
identifier for the local pool from a global allocator for device				
identifiers located within the distributed computing system,				
wherein retrieving at least one additional identifier from the global				
allocator involves retrieving a block of identifiers for the local pool				
from the global allocator, and				
assigning the retrieved identifier to the device so that the				

2. (Original) The method of claim 1, wherein the identifier includes a device major number that specifies a device driver to be used to access the device, and a device minor number that identifies the device to be accessed by the device

identifier can be used to reference the device.

- 4 driver, wherein the device minor number includes an instance number that
- 5 uniquely identifies an instance of the device, and a unit number that identifies an
- 6 independently addressable sub-unit within the device.
- 3. (Original) The method of claim 2, wherein attempting to retrieve the identifier from the local pool includes attempting to retrieve the instance number from the local pool, wherein the instance number is combined with the device major number and the unit number to produce the identifier.



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- 4. (Original) The method of claim 1, wherein if the global allocator is inaccessible, retrieving at least one additional identifier from the global allocator involves assigning a provisional identifier from the local computer system.
- 5. (Original) The method of claim 4, wherein if the global allocator later becomes accessible, the method further comprises:

 communicating the provisional identifier to the global allocator;
- if the global allocator approves the provisional identifier, recording the provisional identifier as a permanent device identifier; and
 - if the global allocator rejects the provisional identifier, assigning a new identifier from the global allocator to the device.
- 1 6. (Canceled).
- 7. (Original) The method of claim 1, wherein the device can include:
- 2 a disk drive;
- a tape drive;
- 4 an I/O device; and
- 5 a networking device.

	5	the method comprising:
	6	detecting the presence of the device within a local computer system that is
	7	part of the distributed computing system; and
	8	if an identifier has not been assigned to the device, assigning an identifier
	9	to the device by,
	10	attempting to retrieve the identifier from a local pool of
X	11	device identifiers within the local computer system,
X	12	if the local pool is empty, retrieving at least one additional
. `	13	identifier for the local pool from a global allocator for device
	14	identifiers located within the distributed computing system,
	15	wherein retrieving at least one additional identifier from the global
	16	allocator involves retrieving a block of identifiers for the local pool

from the global allocator, and

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8. (Currently amended) A computer-readable storage medium storing

instructions that when executed by a computer cause the computer to perform a

system, wherein the identifier is unique across the distributed computing system,

method for assigning an identifier to a device within a distributed computing

9. (Original) The computer-readable storage medium of claim 8, wherein the identifier includes a device major number that specifies a device driver to be used to access the device, and a device minor number that identifies the device to be accessed by the device driver, wherein the device minor number includes an instance number that uniquely identifies an instance of the device, and a unit number that identifies an independently addressable sub-unit within the device.

identifier can be used to reference the device.

assigning the retrieved identifier to the device so that the

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1	10. (Original) The computer-readable storage medium of claim 9, wherein				
2	attempting to retrieve the identifier from the local pool includes attempting to				
3	retrieve the instance number from the local pool, wherein the instance number is				
4	combined with the device major number and the unit number to produce the				
5	identifier.				
1	11. (Original) The computer-readable storage medium of claim 8, whereir				
2	if the global allocator is inaccessible, retrieving at least one additional identifier				
3	from the global allocator involves assigning a provisional identifier from the local				
4	computer system.				
1	12. (Original) The computer-readable storage medium of claim 11,				
2	wherein if the global allocator later becomes accessible, the method further				
3	comprises:				
4	communicating the provisional identifier to the global allocator;				
5	if the global allocator approves the provisional identifier, recording the				
6	provisional identifier as a permanent device identifier; and				
7	if the global allocator rejects the provisional identifier, assigning a new				
8	identifier from the global allocator to the device.				
1	13. (Canceled).				
1	14. (Original) The computer-readable storage medium of claim 8, wherein				
2	the device can include:				
3	a disk drive;				
4	a tape drive;				
5	an I/O device; and				

a networking device.

	1	15. (Currently amended) An apparatus that facilitates assigning an
	2	identifier to a device within a distributed computing system, wherein the identifier
	3	is unique across the distributed computing system, comprising:
	4	a detection mechanism that is configured to detect the presence of the
	5	device within a local computer system that is part of the distributed computing
	6	system; and
	7	an assignment mechanism, wherein if an identifier has not been assigned
	8	to the device, the assignment mechanism is configured to:
•	9	attempt to retrieve the identifier from a local pool of device
	10	identifiers within the local computer system,
$\sqrt{}$	11	if the local pool is empty, to retrieve at least one additional
1	12	identifier for the local pool from a global allocator for device
	13	identifiers located within the distributed computing system,
	14	wherein in retrieving at least one additional identifier from the
	15	global allocator, the assignment mechanism is configured to
	16	retrieve a block of identifiers for the local pool from the global
	17	allocator, and to
	18	assign the retrieved identifier to the device so that the
	19	identifier can be used to reference the device.
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	1	16 (Original) The apparatus of claim 15, wherein the identifier includes a

16. (Original) The apparatus of claim 15, wherein the identifier includes a device major number that specifies a device driver to be used to access the device, and a device minor number that identifies the device to be accessed by the device driver, wherein the device minor number includes an instance number that uniquely identifies an instance of the device, and a unit number that identifies an independently addressable sub-unit within the device.

1	17. (Original) The apparatus of claim 16, wherein the assignment
2	mechanism is configured to attempt to retrieve the instance number from the local
3	pool, wherein the instance number is combined with the device major number and
4	the unit number to produce the identifier.
1	18. (Original) The apparatus of claim 15, wherein if the global allocator is
2.	inaccessible, the assignment mechanism is configured to assign a provisional
3	identifier from the local computer system.
1	19. (Original) The apparatus of claim 18, wherein if the global allocator
2	later becomes accessible, the assignment mechanism is further configured to:
3	communicate the provisional identifier to the global allocator;
4	if the global allocator approves the provisional identifier, to record the
5	provisional identifier as a permanent device identifier; and
6	if the global allocator rejects the provisional identifier, to assign a new
7	identifier from the global allocator to the device.
1	20. (Canceled).
1	21. (Original) The apparatus of claim 15, wherein the device can include:
2	a disk drive;
3	a tape drive;
4	an I/O device; and
5	a networking device.
1	22. (Canceled).